

Title (en)
Ultrasonic welding device

Title (de)
Ultraschallschweißvorrichtung

Title (fr)
Dispositif de soudage par ultrasons

Publication
EP 2781340 A1 20140924 (EN)

Application
EP 14158116 A 20140306

Priority
IT TO20130206 A 20130318

Abstract (en)
An ultrasonic welding device for the transverse welding of a continuous chain of package blanks (12) movable in a longitudinal direction (A), the continuous chain of package blanks (12) including a continuous succession of products (14) spaced apart in a longitudinal direction (A) and wrapped in a tubular packaging film (16), the ultrasonic welding device (10) comprising: - a sonotrode unit (26) including a sonotrode hub (32) rotating about a first axis (B) transverse to said longitudinal direction (A) and at least one sonotrode (30) projecting radially from said sonotrode hub (32), and - an anvil unit (28) comprising an anvil hub (34) rotating about a second axis (D) parallel to said first axis (B) and at least one anvil (36) projecting radially from the anvil hub (34) and having at least one welding portion (38, 40) cooperating with said sonotrode (30) for transversely welding said continuous chain of package blanks (12) along welding lines (20, 22) spaced apart along said longitudinal direction (A), wherein said welding portion (38, 40) comprises at least one rib (46) having a welding surface (50) that extends along a helical path.

IPC 8 full level
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Citation (applicant)
EP 1421000 A1 20040526 - MARS INC [US]

Citation (search report)
• [X] EP 1609582 A1 20051228 - UNI CHARM CORP [JP]
• [A] WO 9721535 A1 19970619 - MOELNLYCKE AB [SE], et al
• [A] GB 2482713 A 20120215 - FRITO LAY TRADING CO GMBH [CH]
• [A] DE 102009002093 A1 20101007 - BOSCH GMBH ROBERT [DE]

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